

Title (en)
SYMMETRIC DUAL PIEZOELECTRIC STACK MICROELECTROMECHANICAL PIEZOELECTRIC DEVICES

Title (de)
MIKROELEKTROMECHANISCHE PIEZOELEKTRISCHE VORRICHTUNGEN MIT SYMMETRISCHEM DUALEM PIEZOELEKTRISCHEM STAPEL

Title (fr)
DISPOSITIFS PIÉZO-ÉLECTRIQUES MICRO-ÉLECTROMÉCANIQUES À DEUX EMPILEMENTS PIÉZOÉLECTRIQUES SYMÉTRIQUES

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Application
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Abstract (en)
[origin: US2015256144A1] The present invention relates to a device comprising an elongate resonator beam extending between first and second ends. A base is connected to the resonator beam at the first end with the second end extending from the base as a structural layer. The elongate resonator beam comprises either: (1) a first oxide layer on a first piezoelectric stack layer over a structural layer on a second oxide layer over a second piezoelectric stack layer on a third oxide layer or (2) a first oxide layer on a first piezoelectric stack layer over a second oxide layer on a structural layer over a third oxide layer on a second piezoelectric stack over a fourth oxide layer. Also disclosed is a system comprising an apparatus and the device, as well as methods of making and using the device.

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